MEADE INSTRUMENTS

TE923W-M

PROFESSIONAL WEATHER STATION WITH REMOTE CONTROL

USER MANUAL

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Introduction

Thank you for selecting the Meade Instruments TE923WD-M Professional Weather Station with remote control. This feature rich and easy-to-use product delivers a wide variety of time and weather data, such as precise atomic time, perpetual calendar, air temperature, relative humidity, barometric pressure, wind speed and direction, rainfall, UV levels and much more.

Meade Instruments is the world's leading designer and manufacturer of telescopes for professional and amateur astronomers - famous for its innovative, high performance telescopes at affordable prices. Meade Instruments now brings that same passion innovation and high performance to its own line of precision, feature rich weather stations.

In this package you will find:

- One Main Unit (receiver) (TE923WD-M)
- One IR Remote Control (TS607-M)
- One Rain Gauge (remote rain sensor/transmitter) (TS906-M)
- One Anemometer (remote wind sensor/transmitter) (TS805-M)
- One UV (ultraviolet) sensor (remote ultraviolet sensor/transmitter) (TS704-M)
- One Five-Channel Temperature & Humidity Sensor (transmitter) (TS34C-M)
- One CD disk with generic PC connection software with USB cable
- One 7.5V AC/DC Adapter
- Mounting Hardware with Allen Wrench
- One User Manual

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Standard Package Contents

Picture	Components
	Main Unit
	Remote Control
	AC/DC 7.5V power adaptor
	UV Sensor consists of: Sensor Unit U-Shaped Sensor holder Circular Ground Stand Stake Base Wall-Mounting Base
	Thermo Hygrometer Sensor
	Rain Gauge consists of: Funnel shaped top with battery compartment Rain Gauge bucket Bucket see-saw mechanism Protective screen
	Anemometer consists of: Wind Cups Wind Vane Anemometer arm Anemometer base
	PC Software
4 screws for securing rain gauge to the flat surface; 4 screws for securing anemometer to vertical surface	**Mounting hardware**
2m (6ft) USB cable	**PC connection cable**

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Required for installation (not included)
- Phillips screwdriver
- Mounting pole for anemometer (optional)
- Small paper clip for reset

Installation

The Professional Weather Station TE923W-M operates at 433MHz radio frequency , so no wire installation is required between the main unit (receiver) and the remote weather sensors (transmitters).

The remote weather sensors include a thermo-hygrometer (temperature and humidity) sensor, UV (ultraviolet) sensor, anemometer (wind sensor) and a rain gauge (rain sensor). All data measured by these remote sensors is transmitted to the main unit wirelessly, with the operating range up to 328 feet (100 meters) in open area.

Remote UV sensor, anemometer and a rain gauge must be placed outdoors to measure weather elements.

Remote thermo-hygrometers can be placed indoors or outdoors, depending on the area where the temperature and humidity are intended to be measured. If you intend measuring outdoor temperature and humidity, place the remote sensor outdoors.

Note: It is critical to assemble and power up all of the remote weather sensors **BEFORE** setting up the main unit.

Note: It is critical to power up and test communication between all of the weather sensors and the main unit **BEFORE** permanently mounting them outside.

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Before you begin

- We recommend using alkaline batteries for the remote weather sensors and the main unit when temperatures are above 32°F (0°C). We recommend using lithium batteries for the remote weather sensors when temperatures are below 32°F (0°C).
- Avoid using rechargeable batteries. (Rechargeable batteries cannot maintain correct power requirements).
- **ALWAYS** install batteries in the **remote** weather sensors ***before*** the main unit.
- Insert batteries matching the polarity in the battery compartment
- Remove and discard any factory applied protective plastic film affixed to the LCD display (if any).
- During an initial setup, place the main unit close to the remote weather sensors.
- After reception is established (all of the remote readings will appear on the main unit's display), position the remote sensors and the main unit within the effective transmission range of up to 328 feet (100 meters). Ideally they should be placed within the line of sight of the main unit. See placement tips in the user manual for each remote weather sensor separately.
- Transmission range may be affected by trees, metal structures and electronic appliances.
- The main unit must be placed indoors.
- The effective operating range may be influenced by the surrounding building materials and how the receiver (main unit) and transmitters (weather sensors) are positioned.
- Place the remote weather sensors so that they face the main unit (receiver), minimizing obstructions such as doors, walls, and furniture.

Note: When the temperature falls below freezing, the batteries in the outdoor remote weather sensors may have reduced voltage supply and a shorter effective range. We recommend using lithium batteries at temperatures of 32°F (0°C) and below.

IMPORTANT: Make sure that the remote weather sensors are easily accessible for cleaning and maintenance.

We recommend cleaning the remote weather sensors periodically, as the dirt and debris may affect sensors accuracy.

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Ultraviolet (UV) Sensor TS704-M

FEATURES

- Ultraviolet light levels measurement
- Remote UV levels data transmission to the main unit via 433MHz signal
- 328 feet (100 meters) transmission range
- Low battery indicator
- Three different placement options – ground, stake and wall

A. LED INDICATOR

- Flashes once when the remote sensor transmits a reading to the main unit
- Flashes twice when battery power is low

B. BATTERY COMPARTMENT SCREW

Holds battery compartment door in place

C. U-SHAPED SENSOR HOLDER

Holds UV sensor in upright position

D. CURCULAR GROUND STAND

Secures sensors in the sensor holder on the flat surface

E. UV SENSOR LID

Covers UV sensor and seals battery compartment

F. BATTERY COMPARTMENT

Holds two AA-size batteries

G. BATTERY COMPARTMENT DOOR

Covers two AA-size batteries

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Assembly

- Snap the U-shaped sensor holder onto the UV sensor unit side grooves
- Insert the round end of the U-shaped holder into one of the mounting hardware pieces provided

Battery installation

- Unscrew the lid on top of the UV sensor unit.
- Remove the screw from the battery compartment door with a small Phillips screwdriver
- Insert two 2 “AA” size 1.5V batteries (not included) matching the polarities shown in the battery compartment.
- Replace the battery compartment door and secure the screw
- Screw the UV sensor unit lid back

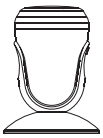
Mounting

There are three different options available for mounting the UV sensor: ground stand, stake and wall mount.

Ground:

- Insert the U-shaped sensor holder round end into the circular ground stand opening, matching 2 round holes in the opening
- Secure the sensor in a location with a maximum sun exposure throughout the day.

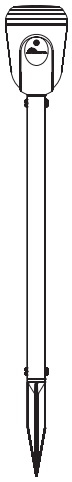
Ground



Stake:

- Snap the sharp stake end onto the metal bar and secure with the screws provided.
- Insert the other end of the metal bar into the U-shaped sensor holder and secure with the screws provided.
- Secure the sensor in a location with a maximum sun exposure throughout the day.

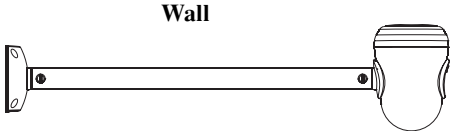
Stake



Wall:

- Insert the wall mounting end into the metal bar and secure with the screws provided.
- Snap the other end of the metal bar on to the U-shaped sens or holder and secure with the screwsprovided.
- Secure the sensor in a location with a maximum sun exposure throughout the day.

Wall



Placement tips:

The UV sensor should be mounted in the area free of sunlight shadows or reflections from the nearby objects.

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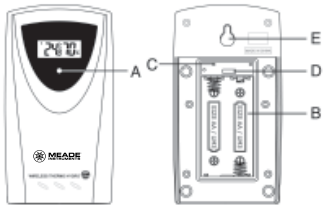
Thermo-Hygrometer Sensor TS34C-M

FEATURES

- Remote data transmission to the main unit via 433 MHz signal
- 328 feet (100 meters) transmission range without interference
- LCD display of measured temperature and humidity
- Five (5) transmission channels selection
- Case can be wall mounted using built-in hanger



A. LED INDICATOR

- Flashes once when the remote sensor transmits a reading to the main unit.
- Flashes twice when battery power is low.

B. BATTERY COMPARTMENT

Holds two AA-size batteries

C. RESET

Resets all readings (requires small paper clip.)

D. CHANNEL SWITCH

Selects the desired channel from 1 to 5

E. WALL-MOUNT RECESSED OPENING

Keeps the remote sensor on the wall

Note: Install the batteries and select the channel before mounting the sensor.

Battery installation

- Remove the screws from the battery compartment with a small Phillips screwdriver.
- Set the channel 1 through 5. The switch is located in the battery compartment. Channel 1 is typically selected if only one remote sensor is being used.
- Install 2 “AA” size alkaline batteries (not included) matching the polarities shown in the battery battery compartment.
- Replace the battery compartment door and secure the screws.
- Secure the thermo-hygrometer remote sensor in the desired location.

Mounting

- The remote thermo-hygrometer sensor can be placed on the flat surface or mounted on the wall in vertical position
- Use the wall mount hardware and screws provided when mounting the thermo-hygrometer sensor on the wall

Placement tips:

- The remote thermo-hygrometer sensor should be placed in the area with a free air circulation and sheltered from the direct sunlight and an extreme weather conditions.
- Ideally, place the thermo-hygrometer sensor above the natural surfaces (such as a grassy lawn).
- Avoid placing the thermo-hygrometer sensor near sources of heat such as chimneys and heating elements.
- Avoid any areas collecting and radiating a heat from the sun, such as metal, brick or concrete structures, paving, patios and decks.
- The international standard for the valid air temperature measurements is 4 feet (1.25meters) above the ground.

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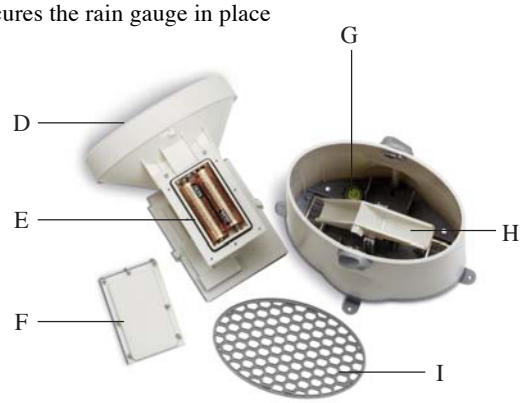
Rain Gauge TS906-M

FEATURES

- Precipitation measurement
- Remote rainfall data transmission to the main unit via 433 MHz signal
- 100 feet (30 meters) transmission range without interference
- Built-in installation level
- Non-corrosive protective screen

A. Rain gauge bucket
Contains electronic components
B. Knob
Secures the top on the rain gauge bucket
C. Rain gauge feet
Secures the rain gauge in place



D. Funnel-shaped top with battery compartment
Contains battery compartment and rainfall counting electronics
E. Battery compartment
Holds two AA-size batteries
F. Screws
Secure battery compartment cover
G. Built-in level with bubble
Ensures level rain gauge mounting for proper operation
H. Bucket see-saw mechanism
Collects the rainfall in one of its containers and self-empties once full
I. Protective screen
Protects the rain gauge funnel from debris

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Battery installation

- Unlock the funnel-shaped top on the rain gauge by turning both knobs on the sides in an anti-clockwise direction.
- Remove the funnel-shaped top lifting it off the rain gauge bucket.
- Remove 7 small screws from the battery compartment cover using a small Phillips screwdriver
- Insert 2 “AA” size alkaline batteries (not included), matching the polarities as shown in the battery compartment.
- Replace the battery compartment door and secure the screws.
- Insert the funnel-shaped top into the rain gauge bucket and secure it into place by turning the knobs clockwise.

Mounting

- Make sure that the rain gauge bucket is level – check for bubble center, inside built-in level.
- Place the protective screen over the top to protect the rain gauge from the debris.
- Where practical, mount the rain gauge in place with wood screws (not included)
- Make sure that the rain gauge is in open area where precipitation falls directly into the gauge’s bucket, ideally 2-3 feet above the ground.

Placement tips

- The rain gauge should be placed in an open area away from the walls, fences, trees and other coverings which may reduce the amount of rain falling into the bucket. Additionally, trees and rooftops may be sources of pollen and debris.
- To avoid the rain shadow effects, place the rain gauge horizontally, on the distance corresponding to two to four times the height of any nearby obstruction.
- It is important to locate the unit where rain can flow freely away.

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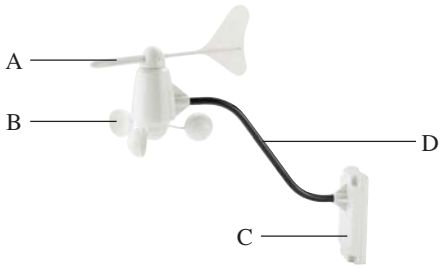
Anemometer (wind sensor) TS906

FEATURES

- Wind speed and wind direction measurement
- Remote wind speed and wind direction data transmission to the main unit via 433 MHz signal
- Operating range 100 feet (30 meters)
- Wall or pole mount

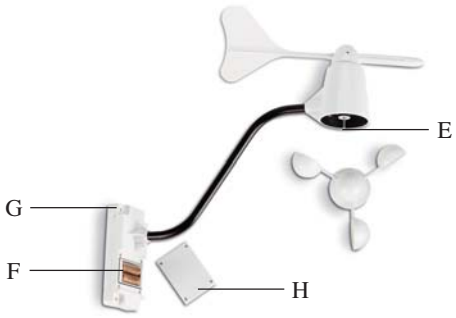


A. WIND VANE
Measures wind direction

B. WIND CUPS
Measures wind speed

C. ANEMOMETER BASE
- Holds battery compartment
- Allows mounting the anemometer vertically

D. ANEMOMETER ARM
Keeps anemometer assembly together



E. WIND CUPS SHAFT
Holds wind cups on the anemometer arm

F. BATTERY COMPARTMENT
Holds 2 AA-size batteries

G. WALL MOUNT SCREW OPENINGS
Allows securing the anemometer in place

H. BATTERY COVER
Allows securing 2 AA size batteries on the anemometer base

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Assembly

- Slide the wind cups on to the anemometer rotating shaft. Do not use force.
- Insert the Allen Wrench (provided) into the wind cup set screw opening. Tighten the set screw to secure wind cups to the rotating shaft.
- Test to ensure cups are securely fastened to the shaft.

Battery installation

- Remove four (4) screws from the battery compartment with a small Phillips screwdriver.
- Open the battery compartment and install 2 “AA” size alkaline batteries (not included) matching the polarities shown.
- Replace the battery compartment door and secure the screws.

Aligning

- Point the wind direction vane to the north (use a compass or map if necessary).
- Press the button inside the “SET” opening located inside battery compartment with a paper clip or similar tool. The “**SET**” selects a new direction for NORTH and, when pressed repeatedly, alternates between the factory default NORTH and user selected NORTH.
- Select the factory set mode. It will be also a default setting in the future.
- Set current wind direction as **NORTH**.

Note: Repeat this procedure every time when changing the batteries.

Mounting

Mount the anemometer onto a vertical surface, using the fittings provided.

Placement tips:

- The anemometer should be mounted in an open area with a free air flow; away from the nearby trees, buildings or other structures.
- For optimal performance, mount the anemometer at 33 feet (10meters) above the ground in unobstructed area.

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Main Unit

The main unit measures pressure, indoor temperature, humidity, and receives atomic time data from the US Atomic Clock and all remote weather sensors. It should be placed indoors.

FEATURES

Time

- Precise time and date set via RF signals from US Atomic clock
- 12 or 24 hour time format
- Manual adjustment of time and date
- Calendar displaying date with month and day in 6 languages English, German, French, Italian, Spanish and Dutch
- Sunrise/set calculation for over 100 pre-programmed world cities in accordance with the geographical information entered by the user
- Moon Phase calendar and historical data for the past and future 39 days
- Dual crescendo alarms with programmable snooze

Weather

- Weather forecast for the next 12 to 24 hour in seven large icons: Sunny, Partly Cloudy, Cloudy, Light Rain, Heavy Rain, Unstable Weather and Snowy
- Barometric pressure in imperial or metric units
- Altitude adjustment for pressure compensation
- 24 hour barometric pressure history chart
- Multiple weather alerts including: Hi/Low temperature, Daily Rainfall, Hi wind gust and Hi wind speed alerts
- Indoor/Outdoor Temperature & Humidity in up to 5 remote locations (additional sensors required)
- Dew point and comfort level indicators
- Wind speed and wind gust averages and memory
- Wind direction
- Rainfall amount with minimum and maximum memory
- UV intensity with daily and weekly highs and lows
- 200 weather records without PC connection
- PC software (included) and USB port
- Operating range from 100 feet (30 meters) up to 328 feet (100 meters)

Display

- Light sensor detects low light conditions and LCD lights up automatically when adapter is connected
- Infrared remote control of all display functions

Power - Main Unit

- AC/DC adapter for automatic remote control
- 4 AA batteries

Power - Infrared Remote Control

- 2 AAA batteries

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Battery installation

- Open the battery compartment door on the back of the main unit.
- Insert four (4) AA size batteries according to the polarities shown and replace the battery compartment door.
- Connect 7.5V AC/DC adapter provided to the main display unit and plug into the wall power outlet.

Note: **The AC/DC adaptor connection is required for automatic backlight control and a handheld remote control functions. If the main unit operates solely on the battery power, the auto backlight control and handheld remote control functions will be disabled.**

- When placing the main unit on the table or other horizontal surface, unfold the table stand adjusting it to the desired viewing angle.
- When mounting the main unit on the wall or vertical surface, fold the table stand back into the unit and use the mounting hardware provided.

Placement tips

- Make sure that the main unit is locating within the operating range of all remote weather sensors.
- Ideally the remote weather sensors should be mounted within the line of sight of the main unit.
- Transmission range may be affected by trees, metal structures and electronic appliances.
- Test reception before permanently mounting all the remote weather sensors.
  Avoid placing the main unit in the following areas:
- Direct sunlight and surfaces emitting and radiating heat, such as heating ducts or air conditioners.
- Areas with interference from the wireless devices (such as cordless phones, radio headsets, baby listening devices) and electronic appliances.

Operation

Once the main unit is powered, the display will show all available LCD segments for a moment.
IMPORTANT: All of the display functions will be locked, allowing setting your local altitude and pressure parameters. The locked display will show the pressure icon and abbreviation **"inHg"** flashing, indoor temperature and humidity readings, default time and default sunset/sunrise time. If pressure and altitude are not configured during this time, the unit will self-calibrate in a few minutes and show the default settings for the pressure and altitude (sea level) and all remote weather sensors readings.
IMPORTANT: If not set during the initial setup, the altitude cannot be adjusted or set at any other time. In order to set the altitude, you will have to restart the main unit completely.

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To set the pressure & altitude units and program your altitude, use the handheld remote control or main unit control panel:

Buttons and Controls

Most of the handheld remote control buttons are corresponding to the main unit controls.
To expose the main unit control buttons, press the **OPEN** button on the upper right corner of the main unit and the controls' cover door will open.

Main unit and handheld remote control adequate buttons

A. UP	- Selects the next available mode anti-clockwise - Increases parameters
B. DOWN	- Selects the next available mode clockwise - Decreases parameters
C. SET	- Rotates display for current mode - If depressed and hold, enters into the programming mode or changes parameter's units - Confirms set parameters
D. MEMORY	- Allows displaying the moon phase, UV, temperature, humidity, rainfall and wind memory records
E. HISTORY	- Allows displaying the sea-level pressure history
F. ALARM/ CHART	- Allows displaying the time alarms and alerts for the temperature, rainfall and wind. - If depressed and hold, allows entering into the alarm/alert programming mode - When depressed and hold in pressure and forecast mode, allows viewing of the different bar charts
G. CHANNEL	- Changes the temperature and humidity channel- Enables the temperature and humidity channel auto-scan mode
H. LIGHT/ SNOOZE	- Enables a backlight for 5 seconds- Snoozes the alarms

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Main unit only

I. OPEN	- Opens the control buttons panel on main unit
J. LIGHT SENSOR– AUTO, ON, OFF	- Toggles the light sensor to automatic, on or off setting
K. SENSITIVITY– HIGH/ LOW	- Adjusts the light sensor sensitivity

Handheld remote control TS607 (Seletions)

Temperature and Humidity Mode	- Selects the Temperature and Humidity Mode
Wind Mode	- Selects the Wind Mode
UV Mode	- Selects the UV Mode
Pressure and Weather Forecast Mode	- Selects the Pressure and Weather Forecast Mode
Rain Mode	- Selects the Rain Mode
Sunrise/Sunset Mode	- Selects the Sunrise/Sunset Mode
Clock and Alarm Mode	- Selects the Clock and Alarm Mode
Change Bar-chart Display	- Selects 24 hour History Bar-chart. - Alternates between Pressure, Channel 1 Temperature, or Channel 1 Humidity

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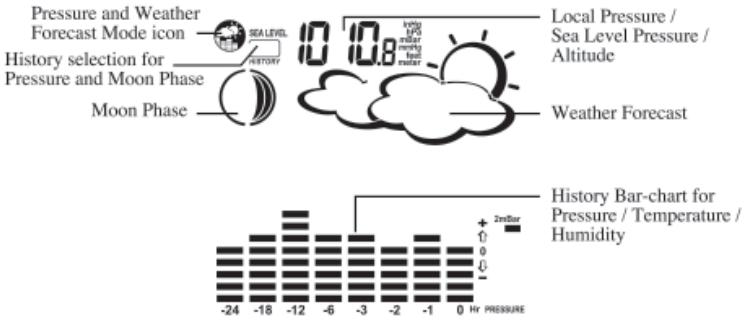
Operating mode descriptions

The main unit has seven (7) different modes (windows) each displaying the separate data category. When a specific mode is selected the corresponding icon will start flashing.
Press **UP** button on the main unit or the handheld remote control to cycle through the modes clockwise or **DOWN** anti-clockwise.

Pressure and Weather Forecast Window

Displays:

- Current pressure and history bar-chart
- Weather forecast
- Moon phase

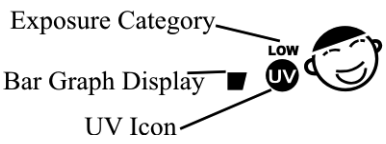


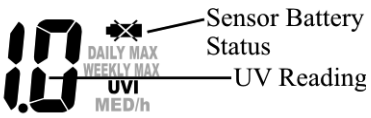
Note: For altitude display of 99o this is actually 990 feet, etc.

UV Window

Displays:

- UV index or Minimum Ultraviolet Exposure
- Daily Maximum
- Weekly Maximum
- Remote UV sensor battery status





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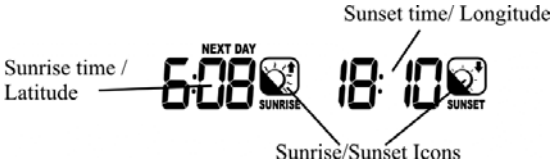
Clock and Alarms Window

Displays:
- US Atomic Time clock with time and calendar
- Single alarm, weekday alarm and ice warning alarm (pre-alarm)

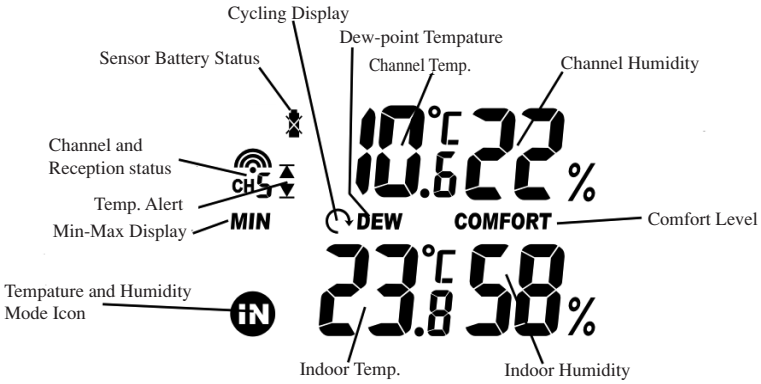
Sunrise/Sunset Window

Displays:
- Sunrise and sunset times
- Longitude and Latitude



Temperature and Humidity Window

Displays:
- Temperature and humidity readings for indoor and selected channel
- Comfort level indication
- Dew point temperature
- High and Low temperature alerts
- Remote Thermo-Hygrometer sensor battery status



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Rain Window

Displays:
- Precipitation amount for the last hour, day, yesterday, last week and last month
- Rainfall alert
- Remote rain gauge battery status

Wind Window

Displays:
- Wind Chill temperature
- Temperature at place of anemometer
- Wind direction
- Wind speed
- Wind gust speed
- Alert for wind speed and wind gust speed
- Remote anemometer battery status

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Customizing your Weather Station

It is required to program:

- The pressure parameters during Initial Setup (See Pressure and Weather Forecast Mode P.22)
- The time, the date and the weekday language (Clock and Alarm Mode: P.25)
- The location data (Sunrise/Sunset Mode: P.29)

Optional:

- The time alarms (Clock and Alarm Mode: P.25)
- The temperature alerts (Temperature and Humidity Mode P.30)
- Daily rainfall alerts (Rain Mode P.32)
- Wind alerts (Wind Mode: P.33)

LED Backlight Options

The main unit backlight can be turned on, off or automatically toggled depending on the environment light conditions. Use the light sensor switch at the back of the main unit to select a desired backlight setting.

For the automatic backlight control, the sensitivity of the light sensor can be adjusted to high or low using the switch, located on the back panel.

Note: For an automatic control function the main unit must be plugged into the wall power outlet via the AC/DC adaptor provided.

Connecting the Weather Station to a PC

Data collected by the weather station can be displayed on PC by connecting the main unit to the computer via USB cable.

- Install the software provided with the weather station according to the instructions in the software manual.
- Connect the main unit to the computer using the USB cable provided.

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Using Different Weather Modes

Pressure and Weather Forecast Mode

It indicates the current barometric pressure, the sea level pressure, the weather forecast and the moon phase.

A number of historical statistics can also be viewed, including the sea-level pressure for the past 24 hours, moon phase for the past and following 39 days, as well as a pressure/ temperature/ humidity history bar-chart.

Pressure can be displayed inHg, hPa/mBar or mmHg, and altitude can be displayed in meters or feet.

Accessing Pressure and Weather Forecast Mode

Press main unit **UP** or **DOWN** until the weather forecast icon to flash, upper display left corner.

From the remote control: Press .

Setting Initial Pressure Parameters

Overview

Local Pressure, Sea Level Pressure and Altitude are interdependent. The weather station is designed to measure local pressure and calculate the other two parameters. If you enter altitude, it will calculate sea level pressure, if you enter sea level pressure, and will calculate altitude.

During initial power up (within the first two minutes) the weather station will not operate until the Pressure & Altitude parameters are entered. The icon in the upper left hand corner begins flashing. If no values are entered at this time, after two minutes the unit will switch to the default settings of: inHG (Inches of Mercury), and 33 FEET. These parameters can be changed as desired at a later date, using the steps outlined in the section for Setting or Changing Pressure and Altitude settings.

1. Setting Pressure and Altitude during initial setup (first two minute only)

- Press **UP** or **DOWN** button selecting the units of pressure in: inHg (inches of mercury), **hPa/mBar** (hectoPascal) **mmHg** (millimeters of mercury)
- Press **SET** to confirm and store selection. The unit will advance to altitude unit selection.
- Press **UP** or **DOWN** button selecting the altitude unit in **FEET** or **METERS**.
- Press **SET** button to confirm and store. The unit will advance to the altitude programming mode.
- Press **UP** or **DOWN** to adjust the local altitude. Press and hold either button for “Rapid” settings. Press **SET** to confirm the programmed value.
- (Local information is obtainable via GPS device or online services like GOOGLE.)
- After about 30 seconds the unit will calculate & display the Sea Level pressure.
- **DO NOT PRESS ANY ADDITIONAL BUTTONS for about 5 minutes as the unit is now searching for remote sensors and need time for measurements to settle down.**

Viewing the Pressure and Altitude Information

Wait at least 5 minutes after initial set up to view a pressure or altitude information. Briefly press **SET** button to alternate between the sea level pressure, local pressure and local altitude altitude settings.

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2. Changing Pressure and Altitude
Select the Pressure and Weather Forecast window. From the main unit: Press **UP** or **DOWN** until the pressure and weather forecast icon starts flashing.

Changing or Setting Sea Level Pressure
- Press **SET** until the local pressure with the word **"SEA LEVEL"** is displayed.
- Press and hold **MEMORY** until the pressure unit is flashing, **inHG, mmHG** or **hPa/mBar**
- Set the sea level pressure units by pressing the **UP** or **DOWN** buttons to adjust the pressure value.
- Press **MEMORY** to confirm your selection.

Changing or Setting Altitude
- Press **SET** button until the local altitude value will be displayed
- Press and hold **MEMORY** until the altitude unit is flashing, **FEET** or **METERS**.
- Set the altitude unit in meters or feet by pressing the **UP** or **DOWN**.
- Press **MEMORY** to confirm your selection.

NOTE: Locate your altitude with a portable GPS receiver or topographical map .Locate barometric pressure at: http://weather.noaa.gov/weather/ccus.html or alternatively, barometric pressure can be obtained from local radio or TV weather channels.

Viewing the Sea Level Pressure History
- From any mode, press the **HISTORY** button. Unit will select the Pressure/ Weather display.
- When the **SEA LEVEL** is displayed, press **HISTORY** repeatedly viewing the sea level pressure history for the past 24 hours in hour increments.
- If no buttons are pressed for 5 seconds, the unit will automatically exit **HISTORY** and return to the Pressure and Weather Forecast Mode.

Viewing the Pressure, Temperature and Humidity Bar Charts
The pressure bar graph shows barometric pressure variations over the past 24 hours. This is very useful for understanding the Barometric trends that are used in weather forecasting. Each bar icon represents 0.06 inHg.
Alternatively, the bar chart can be used to display 24 hour trend data for Sea Level Pressure, CH 1 Remote temperature or Ch1 Remote humidity.
Select the Pressure and Weather Forecast window, press and hold **ALARM/CHART** button to toggle the bar chart title at the right bottom corner of the chart. Alternate between "**PRESSURE**" "**CH1**"temperature (thermometer icon) and "**CH1**" relative humidity with (**RH** icon)".

Viewing the Moon Phase History
The unit indicates the current moon phase and using the MEMORY control, will permit viewing of past of future days. Previous moon phases are selected with the minus sign selected: -1 day, -2 days, etc or future moon phase are selected based on the days ahead: +1 day, + 2 days, etc up to 31 days.
- After selecting the Pressure and Weather Forecast Mode, press **MEMORY**, so **"+ 0 days"** is flashing.
- Press **UP** or **DOWN** selecting from today's date a future (+) or past (-) days and the corresponding moon phase will be displayed. Press and hold either button for a quick advance.
- To exit, press **MEMORY** button.

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Weather Forecast Displays

Display	Weather Forecast
	Sunny
	Partly Cloudy
	Cloudy
	Light Rain
	Heavy Rain
	Unstable Weather
	Snow

Note: The weather forecast accuracy is approximately 70%.
Display shows forecasted, not current conditions. The SUNNY icon indicates clear weather, even when displayed during the night-time.

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Understanding the Moon Phase Diagram

FULL LAST NEW FIRST

UV Mode

The current UV intensity is indicated by the numerical value and more intuitive display, by categorizing it into the levels "**LOW",** "**MED**", **HIGH**", **V. HIGH**" and **EXTREME**. It is also represented by a comfort icon that corresponds to different levels.

The main unit records the daily and weekly maximum UV intensity. Values may be displayed in MED/h or UVI.

Accessing UV Mode

From the main unit: Press **UP** or **DOWN** until the UV icon UV on the display will flash. From the handheld remote control: Press UV .

Viewing UV Statistics

In UV Mode press the **MEMORY** button viewing either current UV intensity, daily Maximum UV intensity with "**DAILY MAX**" displayed or weekly Maximum UV intensity with a "**WEEKLY MAX**" displayed.

Resetting the UV Statistics Memory

In UV Mode, press and hold **MEMORY** to reset all UV statistics.

Setting Units for UV Display (MED/h or UVI)

In UV Mode, press and hold **SET** to convert units between MED/h and UVI.

Clock and Alarm Mode

Manual Settings

The main unit can be manually set to display the time, calendar or UTC time. There are three time alarms available on the main unit: Weekday alarm (**W**), Single alarm (**S**) and Ice Warning Alarm (**Pre-Al**).

- If **Weekday** alarm is activated, it will sound at the set time and the alarm icon will flash Mondays through Fridays.
- If **Single** day alarm is activated, it will sound at the set time and the alarm icon will flash only for this specific day and will not activate on subsequent days.
- The **Ice Warning Alarm** is activated at programmed time interval (from 15 to 90 minutes) before the weekday or single alarm, if channel 1 temperature falls to freezing and below.

Note: The snooze duration for listed alarms can also be programmed up to 15 minutes.

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Accessing Clock and Alarm Mode

Press main unit **UP** or **DOWN** until the clock icon next to the time/date display continues to flash.

From the handheld remote control: Press .

Setting the time, date and language

- In the Clock and Alarm Mode, press and hold **SET** button until the day of week language abbreviation **"ENG"** will flash.
- Press **UP** or **DOWN** selecting the day of the week in English, German, French, Italian, Spanish or Dutch
- Press **SET** to confirm selection.
- Select the City Code for your area by pressing **UP** or **DOWN.** Refer to P.36 for a list of available codes.
- Press **SET** to confirm the city selection and if your selected **USR** for city. This overrides the automatic latitude and longitude pre programmed for each city. You will be prompted to enter the latitude, longitude, Time Zone and select the Daylight Savings Time on or off. (Go to P.36 for programming detail.)
- Press **UP** or **DOWN** to adjust the latitude. Press and hold either button for quick digits advance.
- Press **SET** to confirm the selection.
- Continue setting the longitude using the same technique.
- Set the Time Zone by pressing **UP** or **DOWN** to adjust the time in 30 min intervals. Press and hold either button for quick digits advance.
- Press **SET** to confirm selection.

If the **USR** was selected as a city code or your city is located in the Daylight Savings zone you would need to set the Daylight Saving Time Option:

- Press **UP** or **DOWN** to enable or disable the DST option. Press and hold either button for quick digits advance.
- Press **SET** to confirm selection.
- Continue setting the year, month, day, calendar format (day/month or month/day), time format (12 or 24 hours), local hour and minutes, using the same technique.

After programming is completed, the display will return to the default Clock and Alarm Mode.
Note: Press and hold **SET** anytime during the setup to return to normal Clock and Alarm Mode and all previous settings will be cancelled.

Clock and Calendar Displays

Briefly press the **SET** button to alternate between the 5 Clock & Calendar displays:

- Time with the Day of the week
- Time for UTC (Coordinated Universal Time)
- Time with the City abbreviation
- Time with the Seconds
- Month/ Day/ Year or Day/ Month/ Year.

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Enabling or Disabling the Time Alarms

- Press the **ALARM/CHART** to display the Weekday Alarm or Ice Warning Alarm (Pre-Alarm) time. If these alarms are not set, the abbreviation **OFF** will be displayed.
- To enable or disable any of these alarms, press **UP** or **DOWN**.

Note: Press **SET** anytime during alarm selection mode to return to the default clock display.

Programming Time Alarms

- In the Clock and Alarm Mode, press the **ALARM/CHART** selecting the desired alarm.
- Press and hold **ALARM/CHART** button until the hour digit will flash
- Set the alarm hour using **UP** or **DOWN**. Press and hold either button for quick digit advance.
- Press **ALARM/CHART** to confirm selection.
- Set the alarm minutes using **UP** or **DOWN**. Press and hold either button for quick digit advance.
- Press **ALARM/CHART** to confirm selection.
- Set a Snooze interval (all three alarms share same snooze time duration) using **UP** or **DOWN**. Press and hold either button for quick digit advance.
- Press **ALARM/CHART** to confirm your selection.

After programming is completed, the display will return to the alarm selection screen.

Disabling or Enabling Snooze function

To enable a snooze function press **LIGHT/SNOOZE** button.

Note: Alarm will automatically enter the snooze mode if no buttons are pressed after the alarm sounds for 2 minutes. This will occur for a maximum of three times.

To disable alarm(s):

Press **ALARM/CHART** to disable the alarm (s).

Note: For weekday alarm, pressing **ALARM/CHART** will only disable the alarm for the current day. The alarm will activate again on the next day, Monday through Friday.

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Atomic Time Reception

The radio controlled clock will automatically search for, and synchronize to, the NIST (National Institute of Standards and Technology) Atomic clock signal transmitted at 60 KHz from Colorado.

It synchronizes the weather station clock with a precise time signal that is transmitted continuously throughout the entire continental United States.

The WWVB tower icon flashes on the display, during intervals when the WWVB radio signal is being received.

- During night-time hours, atmospheric disturbances are typically less severe and radio signal reception may improve. A single daily reception is sufficient enough to keep the clock accuracy within 1 second.
- Make sure the unit is positioned at 8 feet (2 meters) distance from any interference source such as a TV, computer monitor, microwave, etc.
- Within concrete wall rooms such as basements or office buildings, the received signal may be weakened. Always place the unit near the window for better reception.

Once the atomic time signal is received, the date and time will be set automatically, and the [ ] icon will appear.

Place the main unit by the window for the better reception. The atomic clock receiver is programmed that it will continue to search for the atomic time signal daily for every hour between 1:00 am and 4:30 am.

Once the time signal has been successfully received, the time and date will be updated automatically.

To enable or disable the atomic time receiver:

- Press and hold **UP** - if atomic time reception is activated, a triangular tower icon will start flashing next to the clock icon. If reception is disabled, the triangular tower icon will disappear.

Icon	Atomic Time Reception Strength
(Flashing)	Undefined data
	No reception for 24 hours
	Weak signal, but can be decoded
	Strong signal

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Sunrise/Sunset Mode

The main unit is able to calculate the sunrise and sunset times depending on the user defined location. The location data contains from the longitude, latitude, time zone and DST (Daylight Saving Time).

Select the closest to your area city code and the main unit will automatically generate all of the correct data for specified location.

If you cannot find the closest city code or would like to enter your specific location, select **"USR**" as the city code during the setup.

A search function is also available. It allows viewing the sunrise/ sunset times for different dates.

Accessing Sunrise/Sunset Mode

Press main unit **UP** or **DOWN** until the sunrise and sunset icons on the lower left of the display will start flashing.

From the remote control: Press .

Programming the Location Data

- In Sunrise/Sunset Mode, press and hold **SET** to enter the location programming mode until the city code in the Time and Alarm display will flash.
- Select the city code closest to your area by pressing **UP** or **DOWN.** Refer to P.37 for a list of available codes. The corresponding longitude and latitude will be displayed in Sunrise/Sunset window along with the city code.
- If you wish to enter the geographical coordinates yourself, select the **"USR"** as the city code.
- Press **SET** to confirm your selection and enter into the geographical coordinates programming programming mode

Set Degree of Latitude

- Press **UP** or **DOWN** to adjust the digits. Press and hold either button for fast advance.
- Press **SET** to confirm your selection.
- Repeat above procedure to set latitude and longitude minutes, longitude degrees, time zone, and DST selection.
- Once programming is completed, the display will return to the Sunrise/Sunset Mode.

Note: Press and hold **SET** anytime during the setup to return to normal Clock and Alarm Mode. All settings will be cancelled.

Viewing the Location Data

In Sunrise/Sunset Mode, press **SET** button to select between the time and sunrise/ sunset times mode display, calendar and sunrise/ sunset times display and a calendar and longitude/ latitude latitude display.

Viewing Sunrise/Sunset Times for Different Dates

- In Sunrise/Sunset Mode, press the **MEMORY** button until the date will flash.
- Press **UP** or **DOWN** to adjust the date. Press and hold either button for fast digits advance.
- The corresponding sunrise and sunset times will be displayed for the selected date.
- Press **MEMORY** or **SET** to return display to the Sunrise/Sunset Mode.

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Understanding of the Sunrise/Sunset Display

The sunrise time displayed in the morning will be different from the one displayed in the afternoon/night:

From 12 am to 12 pm the current day sunrise time will be displayed.

From 12 pm to 12am the next day sunrise time with the **"NEXT DAY**" icon will be displayed

At some locations, especially with high latitudes, sunrise and sunset events may not occur within 24 hours.

Display	**Sunnrise status**	**Display**	**Sunset status**
FULL	Sunrise for the previous day	FULL	Sunset on the following day or later
----	No sunrise for the whole day	----	No sunset for the whole day

Temperature and Humidity Mode

The weather station supports up to 5 remote thermo hygrometers, corresponding to a separate channel of the temperature and relative humidity display. The temperature can be displayed in Celsius (ºC) or Fahrenheit (ºF).

The main unit carries the temperature and humidity sensor and uses this indoors data to calculate an indoors comfort level - Wet, Comfort or Dry.

A temperature alert function is available for each channel. It can be programmed to sound if the channel temperature exceeds or falls below the pre-set upper and lower limit.

Note: The temperature alerts have a 0.5 ºC deviation to prevent them from sounding due to small temperature fluctuations that are close to the set alert value. This means that after the temperature reaches the alert temperature, it will have to fall below the alert temperature plus the deviation (0.5°C) to activate the alert.

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Accessing Temperature and Humidity Mode

Press main unit **UP** or **DOWN** until the **IN** icon on the upper right will flash.

From the remote control: Press .

Viewing Temperature and Humidity for each Channel

Static Display:

In Temperature and Humidity Mode, press the **CHANNEL** button to recall a different channel.

Channel Auto-Scan Display:

To enable automatic scan of the different channels, press and hold **CHANNEL**, until the ↻ icon is displayed. Each valid channel will be alternately displayed with a 5 seconds delay.

Recalling of Temperature and Dew Point Displays

In Temperature and Humidity Mode, press the **SET** button to recall temperature and relative humidity or dew point and relative humidity.

Set the Temperature in Celsius or Fahrenheit.

In Temperature and Humidity Mode, press and hold the **SET** button to toggle the temperature in Celsius (ºC) or Fahrenheit (ºF).

Activating/Deactivating the Temperature Alerts

In Temperature and Humidity Mode, press the **ALARM/CHART** button to recall a current temperature for the corresponding channel, the upper temperature alert with ▲ icon (if disabled, displays **OFF**), or lower temperature alert with ▼ icon (if disabled, displays **OFF**).
Once the above alerts are displayed, press **UP** or **DOWN** to enable or disable the corresponding alert.

Programming the Temperature Alerts

- In the Temperature and Humidity Mode, press the **ALARM/CHART** button selecting the desired alarm.
- Press and hold the **ALARM/CHART** button until the remote temperature and ▲ or ▼ icon starts flashing.
- Adjust the temperature digits for the Temperature Alert using the **UP** or **DOWN**. Press and hold either button for fast digits advance.
- Press the **ALARM/CHART** button to confirm selection and return to the temperature alert selection screen.

Disabling Temperature Alarm(s)

In the Temperature & Humidity Mode, press the **ALARM/CHART** button to disable the alarm(s).

Viewing the Max/Min Channel Temperature and Humidity

In the Temperature & Humidity Mode, press the **MEMORY** button to recall a current temperature and humidity, minimum temperature and humidity or maximum temperature and humidity at the remote location.

Resetting the Remote Temperature and Humidity Memory

In the Temperature and Humidity Mode, press and hold the **MEMORY** button to clear memory for all channels.

▲ ▼

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Remote Sensor Status
The wave icon above the current channel display shows the connection status of the corresponding remote sensor:

Icon	Status
	Searching for the signals from the remote sensor
	Corresponding remote sensor signal received successfully
	No signals received for over 15 minutes

All Remote Sensor Signals Search Activation
The main unit can be manually activated to search for the signals from all remote sensors.
Press and hold the **DOWN** button to enable the search.

Rain Mode
The main unit records the total amount of the rainfall for the last hour, 24 hours, past day, past week and the past month. The rainfall can be displayed in mm or inches.
There is a daily rainfall alert that can be programmed in the unit if the daily rainfall exceeds a pre-programmed limit.

Accessing Rain Mode

Press main unit **UP** or **DOWN** until the **RAIN** icon

on the display starts flashing.

From the remote control: Press

.

Viewing Rain Statistics
In the Rain Mode, press either **SET** or **MEMORY** button to recall a rain statistics for the past hour, past 24 hours, yesterday, past week or past month.
Tip: For the rain rate, estimate the **Last Hour** rainfall value is understood as “inch/hr” or “mm/hr”.

Resetting the Rainfall Statistics Memory
In the Rain Mode, press and hold the **MEMORY** button to reset all rainfall statistics.

Setting Units for the Rain Display in inches or mm
In the Rain Mode, press and hold the **SET** button to toggle rainfall data units between mm and inches.

Enabling or Disabling the Daily Rainfall Alert
- In the Rain Mode press the **ALARM/CHART** button to display either the current rainfall statistics or the daily rainfall alert with “**ALARM HI**” displayed.
- If the alert is disabled, the “**OFF**” will be displayed; otherwise the rainfall alert value will be shown.
- When the rainfall alert is displayed, press the **UP** or **DOWN** to enable or disable it.

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Setting up the Daily Rainfall Alert

- In the Rain Mode, press **ALARM/CHART** to display the rainfall alert.
- Press and hold **ALARM/CHART** until the rainfall alert "**ALARM HI**" will flash.
- Set the desired value for the Rainfall Alert by using **UP** or **DOWN**. Press and hold either button for fast digits advance.
- Press **ALARM/CHART** to confirm selection and the unit will return to the rainfall alert display.

Disabling the Daily Rainfall Alert

In the Daily Rainfall Alert Mode press the **ALARM/CHART** button to disable the alert.

Wind Mode

The wind direction is shown by an animated compass display. Its angle can be displayed as compass points (i.e. NW) or in bearings starting from north (i.e. 22.5º).
The upper left section of the wind mode can be programmed to display either a temperature at the place of anemometer or the temperature adjusted to the wind chill factor.
The lower left section of the wind mode indicates the average wind speed for the past 10 minutes, as well as gust, wind speed alert and gust alert information. It can also show records of the maximum wind speed and wind gust collected during the day.
The wind speed and gust alert functions can be programmed to alert you if the wind speed or gust exceeds a pre-configured limit. The wind speed can be displayed in km/h, mph, m/s or knots.

Note: The wind speed alert has a 5 mph deviation and the wind gust speed alert has a 7 mph deviation. It is set to prevent the alerts from sounding all the time due to small fluctuations close to the alert value. This means that after the wind speed reaches the alert value, it will have to fall below the alert value plus deviation to activate the alert.

Accessing Wind Mode

Press main unit **UP** or **DOWN** until the WIND icon

on the display starts flashing.

From the remote control: Press

.

Configuring Wind Display

In the Wind Mode, press the **SET** button to recall either a wind chill temperature with wind direction in bearings, a wind chill temperature with a wind direction in compass points, a temperature at anemometer and wind direction in compass points or a temperature at anemometer and wind direction in bearings.

Setting Units for the Wind Speed in km/h, mph, m/s or knots

In the Wind Mode, press and hold the **SET** button to set the wind speed units in km/h, mph, m/s or knots.

Viewing Wind Statistics

In the Wind Mode, press the **MEMORY** button to recall a current wind speed, a daily maximum wind speed with "**DAILY MAX**" displayed, a gust speed with a "**GUST"** displayed and a daily maximum gust speed with a "**GUST DAILY MAX"** displayed.

Resetting the Wind Statistics Memory

In the Wind Mode, press and hold **MEMORY** to reset all wind statistics.

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Enabling or Disabling the Wind Alerts
In the Wind Mode, press the **ALARM/CHART** button to recall a current wind speed, a wind speed alert with the "**ALARM HI"** displayed or gust alert with the **"GUST ALARM HI**" displayed.
If the alert is disabled, **"OFF"** will be displayed; otherwise the alert value is shown.
When a wind alert is displayed, press **UP** or **DOWN** to activate or deactivate it.

Wind Alerts programming
- In the Wind Mode, press **ALARM/CHART** to select the desired alarm.
- Press and hold **ALARM/CHART** button until alert and corresponding icon will flash.
- Set the alert using **UP** or **DOWN**. Press and hold either button for fast digits advance.
- Press **ALARM/CHART** to confirm your selection and return to the wind alert selection screen.

Disabling the Wind Alert
To disable wind alert press **ALARM/CHART**.

Memory Reset procedure

These steps will completely reset all of the parameters stored in memory.
- On the main unit press and hold **SNOOZE** and **UP** buttons for 4 seconds until the backlight will flash
- Press **SET** button clearing the memory -the main unit will start beeping with 1 second delay.
- Wait until the beeping will cease
- Disconnect Remove the batteries from the back of the main display unit and wait 10 seconds
- Reinstall the batteries

Maintenance

Changing Batteries
The battery status of each weather sensor is checked every hour. If the low battery indicator lights up, replace the batteries in the corresponding unit.

Changing Batteries in the Main Unit
- First connect the AC/DC adaptor provided to the main unit to avoid losing any data.
- Remove the battery compartment door at the back and replace all batteries. Do not mix old and new batteries.
- Replace the battery compartment door.

Changing Batteries in Remote Weather Sensors
- Replace the batteries following the setup instructions for the corresponding sensor.
- When the batteries are properly installed, the remote weather sensor will resume sending signals to the main unit.
- To enforce an immediate remote signals search, press and hold **DOWN** on the main unit.

Cleaning
The main unit and outer casings of the remote weather sensors can be cleaned with a damp cloth. Small parts can be cleaned with a cotton tip or pipe-cleaner.
Never use any abrasive cleaning agents and solvents. Do not immerse any units with electronic parts in water or under running water.

Anemometer
Check if the wind vane and wind cups can spin freely and are free from dirt, debris and spider webs.

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Troubleshooting

Q: "The display shows dashes "—-" for weather parameter(s)"
A: The display will show "- - -" when the wireless connection with the remote sensor is lost for the following periods:
Thermo-Hygrometer: 15 minutes
UV Sensor: 30 minutes
Anemometer (Wind Sensor):15 minutes
Rain Gauge (Rain Sensor):30 minutes

Check or replace the batteries for the corresponding sensor. Then press and hold **DOWN** on the main unit or handheld remote to enforce a search for all remote signals.

If this does not work, check the wireless transmission path from the corresponding weather sensor to the main unit and change their locations if necessary.

Although wireless signals can pass through solid objects and walls, the weather sensor should ideally be within the line of sight of the main unit.

The following may be the cause of reception problems:
- The remote weather sensor and a main unit are too far from each other.
- The signal shielding materials, such as metal surfaces, concrete walls or dense vegetation, are in the path of transmission.
- There is interference from the wireless devices (such as cordless phones, radio headsets and baby listening devices) and electronic appliances.

Q: "The weather readings on my weather station are different from the TV, radio or official weather reports."
A: The weather data may vary considerably due to different environmental conditions and placement of the weather sensors.
Check the placement tips included in this manual to site your weather sensors in the best possible way.

Q: "The weather forecast is inaccurate."
A: The weather forecast predicts the weather for the next 12 to 24 hours, and does not reflect current weather conditions.

PRECAUTIONS

This product is engineered to give you years of satisfactory service if handled carefully. Here are a few precautions:
- Do not immerse the units in water.
- Do not clean the units with abrasive or corrosive materials. They may scratch the plastic parts and corrode the electronic circuits.
- Do not subject the product to excessive force, shock, dust, temperature, or humidity, which may result in malfunctions, shorter lifespan, damaged batteries, and damaged parts.
- Do not tamper with the product's internal components. Doing so will invalidate the warranty and may cause damage. The product contains no user-serviceable parts.
- Use only fresh batteries. Do not mix new and old batteries.
- Read the user's manual thoroughly before operating the product.

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Appendix - City Codes

The Table below will assist in determining the appropriate time zones and Daylight savings time. Latitude & Longitude are provided to improve sun rise & sun set calculations based on location.

Time zone offset: Time zone from UTC (**Coordinated Universal Time)** ranges from -13:00 to +15:00 hours
Latitude: 0°0’ to 89°59’, north and south (Only set if City name is User defined city)
Longitude: 0°0’ to 180°0’, east and west (Only set if City name is User defined city)

NORTH AMERICA	Time Zone Offset	Code	DST	Latitude			Longitude		
				°	‘		°	‘	
Las Vegas, Nev.	-8	LAS	SU	36	10	N	115	12	W
Los Angeles, Calif.	-8	LAX	SU	34	3	N	118	15	W
Portland, Ore.	-8	PDX	SU	45	31	N	122	41	W
San Diego, Calif.	-8	SAN	SU	32	42	N	117	10	W
Seattle, Wash.	-8	SEA	SU	47	37	N	122	20	W
San Francisco, Calif.	-8	SFO	SU	37	47	N	122	26	W
San Jose, Calif.	-8	SJC	SU	37	20	N	121	53	W
Vancouver, Canada	-8	VAC	SU	49	16	N	123	7	W
Vancouver, B.C., Can.	-8	YVR	SU	49	13	N	123	6	W
Denver, Colo.	-7	DEN	SU	39	45	N	105	0	W
El Paso, Tex.	-7	ELP	SU	31	46	N	106	29	W
Phoenix, Ariz.	-7	PHX	**NO**	33	29	N	112	4	W
Calgary, Alba., Can.	-7	YYC	SU	51	1	N	114	1	W
Austin, Tex.	-6	AUS	SU	30	16	N	97	44	W
Birmingham, Ala.	-6	BHM	SU	33	30	N	86	50	W
Nashville, Tenn.	-6	BNA	SU	36	10	N	86	47	W
Chicago, IL	-6	CGX	SU	41	50	N	87	37	W
Chihuahua, Mexico	-6	CUU	SU	28	37	N	106	5	W
Dallas, Tex.	-6	DAL	SU	32	46	N	96	46	W
Houston, Tex.	-6	HOU	SU	29	45	N	95	21	W
Memphis, Tenn.	-6	MEM	SU	35	9	N	90	3	W
Mexico City, Mexico	-6	MEX	SU	19	26	N	99	7	W
Milwaukee, Wis.	-6	MKE	SU	43	2	N	87	55	W
Minneapolis, Minn.	-6	MSP	SU	44	59	N	93	14	W
New Orleans, La.	-6	MSY	SU	29	57	N	90	4	W
Oklahoma City, Okla.	-6	OKC	SU	35	26	N	97	28	W
San Antonio, Tex.	-6	SAT	SU	29	23	N	98	33	W
St. Louis, Mo.	-6	STL	SU	38	35	N	90	12	W
Atlanta, Ga.	-5	ATL	SU	33	45	N	84	23	W
Boston, Mass.	-5	BOS	SU	42	21	N	71	5	W
Baltimore, Md.	-5	BWI	SU	39	18	N	76	38	W
Cleveland, Ohio	-5	CLE	SU	41	28	N	81	37	W
Columbus, Ohio	-5	CMH	SU	40	0	N	83	1	W
Cincinnati, Ohio	-5	CVG	SU	39	8	N	84	30	W
Washington, D.C.	-5	DCA	SU	38	53	N	77	2	W
Detroit, Mich.	-5	DTW	SU	42	20	N	83	3	W
Havana, Cuba	-5	HAV	SH	23	8	N	82	23	W

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NORTH AMERICA	Time Zone Offset	Code	DST	Latitude °	‘		Longitude °	‘	
Indianapolis, Ind.	-5	IND	**NO**	39	46	N	86	10	W
Jacksonville, Fla.	-5	JAX	SU	30	22	N	81	40	W
Miami, Fla.	-5	MIA	SU	25	46	N	80	12	W
New York, N.Y.	-5	NYC	SU	40	47	N	73	58	W
Philadelphia, Pa.	-5	PHL	SU	39	57	N	75	10	W
Pittsburgh, Pa.	-5	PIT	SU	40	27	N	79	57	W
Tampa, Fla.	-5	TPA	SU	27	57	N	82	27	W
Montreal, Que., Can.	-5	YMX	SU	45	30	N	73	35	W
Ottawa, Ont., Can.	-5	YOW	SU	45	24	N	75	43	W
Toronto, Ont., Can.	-5	YTZ	SU	43	40	N	79	24	W

ROW	Zone Offset	Code	DST	Latitude °	‘		Longitude °	‘	
Addis Ababa, Ethiopia	3	ADD	NO	9	1	N	38	44	E
Adelaide, Australia	9.5	ADL	SA	34	55	S	138	36	E
Ankara, Turkey	2	AKR	SE	39	55	N	32	55	E
Algiers, Algeria	1	ALG	NO	36	50	N	3	0	E
Amsterdam, Netherlands	1	AMS	SE	52	22	N	4	53	E
Stockholm Arlanda, Sweden	1	ARN	SE	59	17	N	18	3	E
Asunción, Paraguay	-3	ASU	sp	25	15	S	57	40	W
Athens, Greece	2	ATH	SE	37	58	N	23	43	E
Bucharest, Romania	2	BBU	SE	44	25	N	26	7	E
Barcelona, Spain	1	BCN	SE	41	23	N	2	9	E
Belgrade, Yugoslavia	1	BEG	SE	44	52	N	20	32	E
Beijing, China	8	BEJ	NO	39	55	N	116	25	E
Berlin, Germany	1	BER	SE	52	30	N	13	25	E
Birmingham, England	0	BHX	SE	52	25	N	1	55	W
Bangkok, Thailand	7	BKK	NO	13	45	N	100	30	E
Brisbane, Australia	10	BNE	NO	27	29	S	153	8	E
Bordeaux, France	1	BOD	SE	44	50	N	0	31	W
Bogotá, Colombia	-5	BOG	NO	4	32	N	74	15	W
Bremen, Germany	1	BRE	SE	53	5	N	8	49	E
Brussels, Belgium	1	BRU	SE	50	52	N	4	22	E
Buenos Aires, Argentina	-3	BUA	NO	34	35	S	58	22	W
Budapest, Hungary	1	BUD	SE	47	30	N	19	5	E
Cairo, Egypt	2	CAI	sg	30	2	N	31	21	E
Caracas, Venezuela	-4	CCS	NO	10	28	N	67	2	W
Calcutta, India (as Kolkata)	5.5	CCU	NO	22	34	N	88	24	E
Córdoba, Argentina	-3	COR	NO	31	28	S	64	10	W
Copenhagen, Denmark	1	CPH	SE	55	40	N	12	34	E
Cape Town, South Africa	2	CPT	NO	33	55	S	18	22	E
New Delhi, India	5.5	DEL	NO	28	35	N	77	12	E
Dakar, Senegal	0	DKR	NO	14	40	N	17	28	W
Dublin, Ireland	0	DUB	SE	53	20	N	6	15	W
Durban, South Africa	2	DUR	NO	29	53	S	30	53	E
Kinshasa, Congo	1	FIH	NO	4	18	S	15	17	E
Frankfurt, Germany	1	FRA	SE	50	7	N	8	41	E
Glasgow, Scotland	0	GLA	SE	55	50	N	4	15	W
Guatemala City, Guatemala	-6	GUA	NO	14	37	N	90	31	W

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ROW	Zone Offset	Code	DST	Latitude °	'		Longitude °	'	
Hamburg, Germany	1	HAM	SE	53	33	N	10	2	E
Helsinki, Finland	2	HEL	SE	60	10	N	25	0	E
Hong Kong, China	8	HKG	NO	22	20	N	114	11	E
Irkutsk, Russia	8	IKT	SK	52	30	N	104	20	E
Jakarta, Indonesia	7	JKT	NO	6	16	S	106	48	E
Johannesburg, South Africa	2	JNB	NO	26	12	S	28	4	E
Kingston, Jamaica	-5	KIN	NO	17	59	N	76	49	W
Osaka, Japan	9	KIX	NO	34	32	N	135	30	E
Kuala Lumpur, Malaysia	8	KUL	NO	3	8	N	101	42	E
Lima, Peru	-5	LIM	NO	12	0	S	77	2	W
Lisbon, Portugal	0	LIS	SE	38	44	N	9	9	W
London, England	0	LON	SE	51	32	N	0	5	W
La Paz, Bolivia	-4	LPB	NO	16	27	S	68	22	W
Liverpool, England	0	LPL	SE	53	25	N	3	0	W
Lyon, France	1	LYO	SE	45	45	N	4	50	E
Madrid, Spain	1	MAD	SE	40	26	N	3	42	W
Melbourne, Australia	10	MEL	SA	37	47	S	144	58	E
Milan, Italy	1	MIL	SE	45	27	N	9	10	E
Manila, Philippines	8	MNL	NO	14	35	N	120	57	E
Moscow, Russia	3	MOW	SK	55	45	N	37	36	E
Marseille, France	1	MRS	SE	43	20	N	5	20	E
Munich, Germany	1	MUC	SE	48	8	N	11	35	E
Montevideo, Uruguay	-3	MVD	SM	34	53	S	56	10	W
Naples, Italy	1	NAP	SE	40	50	N	14	15	E
Nairobi, Kenya	3	NBO	NO	1	25	S	36	55	E
Nanjing (Nanking), China	8	NKG	NO	32	3	N	118	53	E
Odessa, Ukraine	2	ODS	SE	46	27	N	30	48	E
Omaha, Neb.	-6	OMA	SU	41	15	N	95	56	W
Oslo, Norway	1	OSL	SE	59	57	N	10	42	E
Paris, France	1	PAR	SE	48	48	N	2	20	E
Perth, Australia	8	PER	NO	31	57	S	115	52	E
Prague, Czech Republic	1	PRG	SE	50	5	N	14	26	E
Panama City, Panama	-5	PTY	NO	8	58	N	79	32	W
Rangoon, Myanmar	6.5	RGN	NO	16	50	N	96	0	E
Rio de Janeiro, Brazil	-3	RIO	sb	22	57	S	43	12	W
Reykjavík, Iceland	0	RKV	NO	64	4	N	21	58	W
Rome, Italy	1	ROM	SE	41	54	N	12	27	E
Santiago, Chile	-4	SCL	sc	33	28	S	70	45	W
Shanghai, China	8	SHA	NO	31	10	N	121	28	E
Singapore, Malasia	8	SIN	NO	1	14	N	103	55	E
Sofia, Bulgaria	2	SOF	SE	42	40	N	23	20	E
São Paulo, Brazil	-3	SPL	sb	23	31	S	46	31	W
Salvador, Brazil	-3	SSA	NO	12	56	S	38	27	W
Sydney, Australia	10	SYD	SA	34	0	S	151	0	E
Tokyo, Japan	9	TKO	NO	35	40	N	139	45	E
Tripoli, Libya	2	TRP	NO	32	57	N	13	12	E
Vienna, Austria	1	VIE	SE	48	14	N	16	20	E
Warsaw, Poland	1	WAW	SE	52	14	N	21	0	E
Zürich, Switzerland	1	ZRH	SE	47	21	N	8	31	E

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Definitions of time zones using daylight savings time (DST)

NO = NO DST = Places that do not observe DST
ON = Adds 1 hour to the local standard time
SU = USA DST = Beginning in 2007, most of the **United States** begins Daylight Saving Time at 2:00 a.m. on the second Sunday in March and reverts to standard time on the first Sunday in November. In the U.S., each time zone switches at a different time.
SE = EURO DST = Standard European DST. DST begins at 1:00am GMT on the last Sunday of March and ends at 1:00am GMT on the last Sunday of October (03:00 (local DST) >> 02:00 (local standard).
SK = DST starts on last Sunday of March at 2:00 AM local standard time (02:00 >> 03:00) and ends on last Sunday of October at 3:00 AM local daylight time (03:00 >> 02:00)
SA = AUST DST = Australian DST starts on At 2:00am South Australian standard time on the last Sunday of October time is set 1 hour forward and ends on at 3:00am South Australian summer time on the last Sunday of March time is set 1 hour back.
SB = LATN DST = South Brazilian DST. DST changes annually, starts on third Sunday of October at Midnight local standard time (0:00 >> 01:00) and ends on third Sunday of February at Midnight local daylight time (0:00 >> 23:00)
SC = Chile DST starts on second Sunday of October at Midnight local standard time (0:00 >> 01:00) and ends on second Sunday of March at Midnight local daylight time (0:00 >> 23:00).
SH = DST starts on first Sunday of April at midnight local standard time (0:00am >> 01:00am) and ends on last Sunday of October at 1:00 AM of local daylight time (1:00am >> 0:00)
SP = Paraguay DST starts third Sunday in October at midnight local standard time (0:00am >> 01:00am) ends second Sunday in March at midnight local daylight time (1:00am >> 0:00).
SG = Egypt DST begins last Friday in April at Midnight local standard time (0:00 >> 01:00) and ends last Friday (0:00 Friday of local DST) in September at Midnight local daylight time (0:00 >> 23:00)
SN = Namibia DST begins first Sunday in September 2:00 of local standard time (02:00 >> 03:00) and ends first Sunday in April 2:00 of local daylight time. (02:00 >> 01:00)
SZ = New Zealand DST begins first Sunday of October at 2:00 AM local standard time (02:00 >> 03:00) and ends third Sunday in March at 3:00 AM local daylight time (03:00 >> 02:00).
ST = Tasmania DST begins first Sunday in October 2:00 of local standard time (02:00 >> 03:00) and ends last Sunday in March at 3:00 of local daylight time (03:00 >> 02:00).
SI = Iraq and Syria DST starts April 1 at 3:00 of the local standard time (03:00 >> 04:00) and ends October 1 at 4:00 of the local daylight time (04:00 >> 03:00).
SQ = Iran DST starts 21 Mar at midnight of local standard time (0:00 >> 01:00am) maybe changed annually and ends 21 Sep at midnight of local daylight time (0:00 >> 23:00).
SM = DST starts on third Sunday of September at Midnight local standard time (0:00 >> 01:00) and ends on last Sunday of March at 2:00 AM local daylight time (02:00 >> 01:00).

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Specifications

Radio Frequency: 433 MHz
RF Reception range: 100-328 feet (30 -100 m)
Barometric Pressure
Measuring Range: 14.75 inHg to 32.44 inHg (500 Hpa to 1100Hpa); (374.5 mmHg to 823.8 mmHg)
Resolution: 0.003 inHg (0.1 Hpa, 0.08 mmHg)
Accuracy: 0.015 inHg (5 Hpa; 0.38 mmHg)
Sampling interval: 20 minutes
Altitude Compensation Range: -657 ft to 16404 ft (-200m to +5000 m)

Temperature (Indoor)
Operating Range: 14.2°F to 140°F (-9.9°C to 60°C)
Resolution: 0.2°F (0.1°C)
Accuracy: 2°F (1°C)
Sampling Interval: 10 seconds

Temperature (remote)
Range: -40°F to 176°F (-40°C to 80°C)
Resolution: 0.2°F (0.1°C)
Accuracy: 2°F (1°C)
Transmitting Interval: around 47 seconds

Humidity (Indoor)
Operating Range: 0% to 99%
Resolution: 1%
Accuracy: 5%
Sampling Interval: 10 seconds

Humidity (Outdoor)
Operating Range: 0% to 99%
Resolution: 1%
Accuracy: 5%
Sampling Interval: 10 seconds
Transmitting Interval: around 47 seconds

Sunrise and Sunset
Accuracy: 1min (latitude within 50°)

Ultraviolet light
Range: 0 UVI to 36UVI (15.4 MED/hour)
Resolution : 0.1UVI (0.1 MED/h)
Accuracy: 1UVI + 10%
Transmitting Interval: 300 seconds

Wind Direction
Range: 0° to 360°
Resolution: 22.5°
Accuracy: 11.25°
Starting Threshold: 3mph (4.8 Km/h)
Transmitting interval: 33 seconds

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Wind Speed
Range: 0 to 199.9mph (199.9 Km/h, 173.7 Knots, 89.3 m/s)
Resolution: 0.1mph (0.16 Km/h)
Accuracy: (2mph + 5%)
Starting Threshold: 3mph (4.8 Km/h)
Wind/Gust Speed Display Update Interval: 33 seconds
Wind/Gust Sampling Interval: 11 seconds

Rainfall
1h/24h/yesterday range: 0 to 78.73 inch (0 to 1999.9 mm)
Last week/ last month range: 0 to 787.3 inch (0 to 19999 mm)
Resolution: 0.03 inch (0.6578 mm)
Accuracy: +/- 5% +/- 0.03 inch (+/-5%mm +/-0.6875)
Transmitting Interval: 183 seconds

Hardware Requirement for WeatherView PC software
Operating System: Windows 98 or above
Memory size: Ram 128 MB or more
Hard disk size: 100 MB free space or more
Optical Device: 2 x CD-Rom drive

Power
Main unit: 4 x UM-3 or AA 1.5V battery; 7.5V AC/DC power adaptor (200mA; center pin positive)
Remote Thermo Hygrometer: 2 x UM-3 or AA 1.5V battery
Remote UV sensor: 2 x UM-3 or AA 1.5V battery
Remote Anemometer: 2 x UM-3 or AA 1.5V battery
Remote Rain Gauge: 2 x UM-3 or AA 1.5V battery
IR Remote Control: 2 x UM-4 or AAA 1.5V batteries

Battery life (alkaline)
Main unit: 2 month
Thermo-Hygrometer: over 12 months
UV sensor: 2 years
Anemometer: 2 years
Rain Gauge: 2 years

Weight (without batteries)
Main unit: 8.15oz (231g)
Remote Thermo-Hygrometer: 2.29oz (65g)
Remote UV: 2.78oz (79g)
Remote Anemometer: 11.12oz (315g)
Remote Rain gauge: 10.24oz (290g)
IR Remote Control: 3.18oz (90g)

Dimensions
Main unit: 8.66 (L) x 6.38 (H) x 1.38 (D) inches / 220 (L) x 162 (H) x 35 (D) mm
Remote Thermo - Hygrometer: 2.37 (L) x 4 (H) x 1 (D) inches / 60 (L) x 101 (H) x 25 (D) mm
Remote UV unit: 2.58 (L) x 4.45 (H) x 2.58 (D) inches / 65.5 (L) x 113 (H) x 65.5 (D) mm
Remote Anemometer: 19.16 (L) x 19.16 (H) x 15.35 (D) inches / 486.6 (L) x 486.6 (H) x 390 (D) mm
Remote Rain gauge: 6.49 (L) x 6.89 (H) x 4.72 (D) inches / 165 (L) x 175 (H) x 119 (D) mm
IR Remote Control: 1.61 (L) x 5.94 (H) x 0.86 (D) inch / 40 (L) x 150 (H) x 22 (D) mm

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FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.
Warning: Changes or modification to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: This equipment had been tested and found to comply with the limits for a Class B Digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment, installed and used in accordance with the instructions, may cause harmful interference to radio communications.
There is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to improve or correct turning the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

DECLARATION OF CONFORMITY

We
Name: Meade Instruments Corporation
Address: 27 Hubble, Irvine, CA, 92618
Telephone No.: 1-949-451-1450
declare that the product
Product No.: TE923W
Product Name: Professional Weather Station with Remote Control
Manufacturer: Hideki Electronics Ltd.
Address: Unit 2304-06, 23/F Riley House, 88 Lei Muk Road, Kwai Chung, New Territories, Hong Kong
is in conformity with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
This device may not cause harmful interference.
This device must accept any interference received, including interference that may cause undesired operation.
The information above is not to be used as a contact for support or sales. Please call our customer service hotline (refer to the Standard Warranty Information) for all injuries instead.

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BATTERY SAFETY INSTRUCTIONS

- Always purchase the correct size (12 x 1.5 V AA, 15A/15AC ANSI, LR6 IEC), (2 x 1.5 V AAA 24A/24AC ANSI LR03 IEC) and grade of battery most suitable for the intended use.
- Replace all batteries of a set at the same time.
- Clean the battery contacts and also those of the device prior to battery installation.
- Ensure the batteries are installed correctly with regard to polarity (+ and -).
- Remove the batteries from any weather station which is not to be used for an extended period of time.
- Remove used batteries promptly.
- Do not mix old batteries with new batteries.
- Do not mix alkaline, lithium, standard (Carbon Zinc), or rechargeable (Nickel Cadmium) batteries.

Caution:

- If batteries or parts are swallowed, see a doctor immediately.

STANDARD WARRANTY INFORMATION

This product is warranted by Meade Instruments Corp. (MIC) to be free of defects in materials and workmanship for a period of ONE YEAR from date of original retail purchase in the U.S.A. MIC will repair or replace the product, or part thereof, found upon inspection by MIC to be defective, provided the defective part or product is returned to MIC, freight prepaid, with proof of purchase. This warranty applies to the original purchaser only and is non-transferable. Meade products purchased outside North America are not included in this warranty.

RGA Number Required: Prior to the return of any product or part, a Return Goods Authorization (RGA) number must be obtained by writing to Meade's Customer Service Department or by calling 800-626-3233. Each returned part or product must include a written statement detailing the nature of the claimed defect, as well as the owner's name, address, phone number, and a copy of the original sales invoice.

This warranty is not valid in cases where the product has been abused or mishandled, where unauthorized repairs have been attempted or performed, or where depreciation of the product is due to normal wear-and-tear. MIC specifically disclaims special, indirect, or consequential damages or lost profits, which may result from a breach of this warranty. Any implied warranties which cannot be disclaimed are hereby limited to a term of one year from the date of purchase by the original retail purchaser. This warranty gives you specific rights. You may have other rights which vary from state to state.

MIC reserves the right to change product specifications or to discontinue products without prior notice.

This warranty supersedes all previous Meade product warranties.

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Meade Instruements Corp.
27 Hubble
Irvine, CA 92618

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